PATENT COOPERATION TREATY





INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 01/16692	23/05/2001	30/05/2000
Applicant	•	
THE JOHNS HOPKINS UNIVERS	ITY	
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searching Aut ansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	s report.
Basis of the report		
	international search was carried out on the baless otherwise indicated under this item.	asis of the international application in the
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this
b. With regard to any nucleotide ar was carried out on the basis of the		nternational application, the international search
	onal application in written form.	
<u> </u>	ernational application in computer readable for	m.
	o this Authority in written form.	
	o this Authority in computer readble form.	doos not go havand the disclosure in the
	bsequently furnished written sequence listing on the sequence listing of the s	does not go beyond the disclosure in the
the statement that the inf furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were fou	and unsearchable (See Box I).	
3. Unity of invention is lac	cking (see Box II).	
4. With regard to the title,		
the text is approved as s	ubmitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	
5 MGM special to the chatmen		
5. With regard to the abstract, the text is approved as s	ubmitted by the applicant.	
the text has been establi		rity as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be put	olished with the abstract is Figure No.	3
X as suggested by the app	licant.	None of the figures.
because the applicant fa	iled to suggest a figure.	
because this figure bette	r characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International Application No **≅**/US 01/16692

A. CL IPC	ASSI 7	FICATION OF SUBJECT H01J49/04	T

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ \text{IPC 7} & \text{H01J} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 296 322 A (WECHSUNG REINER) 20 October 1981 (1981-10-20) column 2; figures 1,2	1
Υ	US 5 313 061 A (DREW RUSSELL C ET AL) 17 May 1994 (1994-05-17) abstract	. 1
A	US 4 178 507 A (BRUNNEE CURT ET AL) 11 December 1979 (1979-12-11) abstract	
Furt	ner documents are listed in the continuation of box C. Patent family memb	pers are listed in annex.
A docume	or priority date and not i	l after the international filing date n conflict with the application but principle or theory underlying the

Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to 		
 document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another 	involve an inventive step when the document is taken alone		
citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the		
O* document referring to an oral disclosure, use, exhibition or other means	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled in the art.		
"P" document published prior to the international filing date but later than the priority date claimed	*&* document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		

18 April 2002

02/05/2002

Name and mailing address of the ISA

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Information on patent family members

International Application No 21/US 01/16692

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